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FIG. 1A



1 μm
3.5KV X33,000 8mm

FIG. 1B



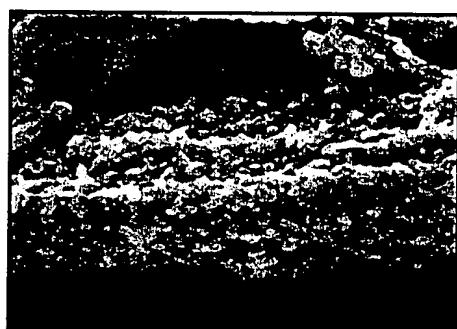
1 μm
414619 3.5KV X33,000 24mm

FIG. 1C



1 μm
3.5KV X18,000 7mm

FIG. 1D



1 μm
3.0KV X45,000 15mm

FIG. 1E



1 μm

0020 3.5KV X4,500 15mm

FIG. 1F



1 μm

0014 3.5KV X4,300 15mm

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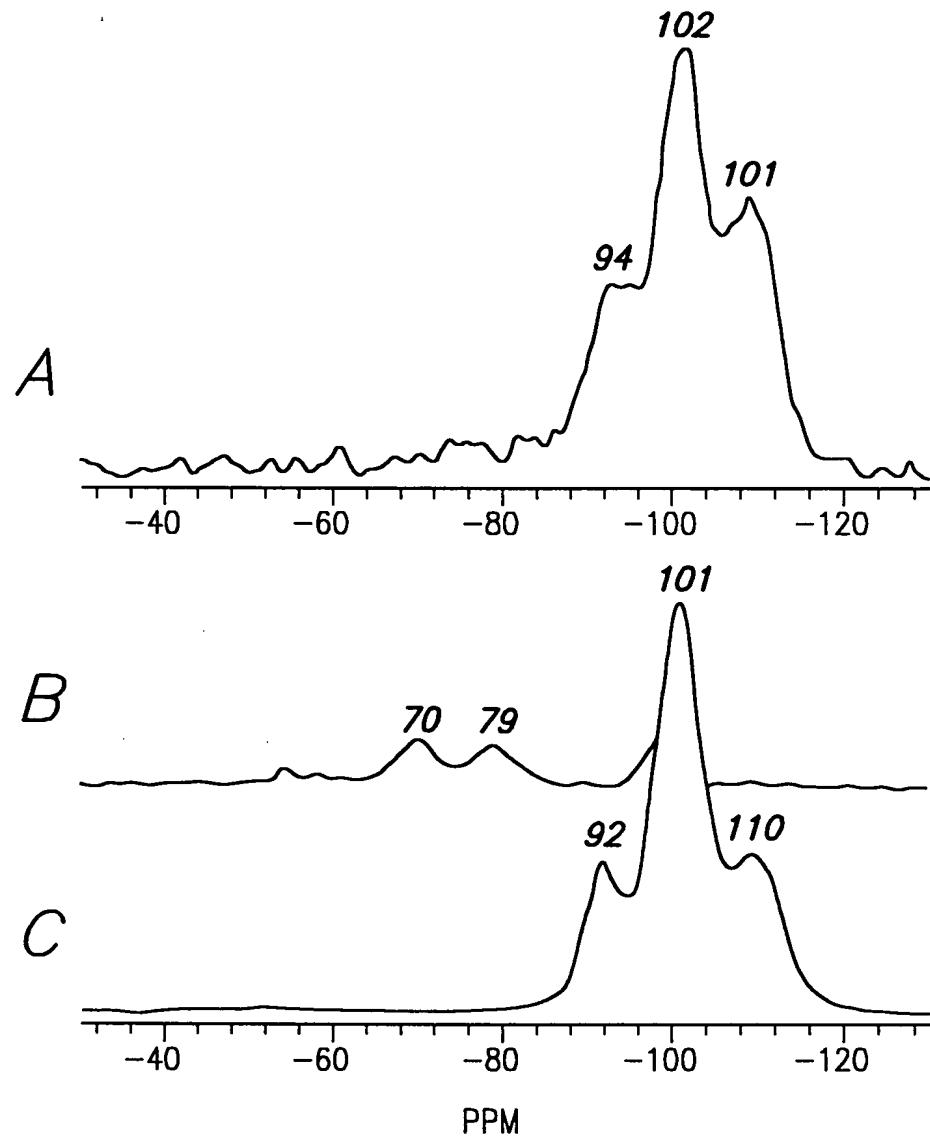


FIG. 2

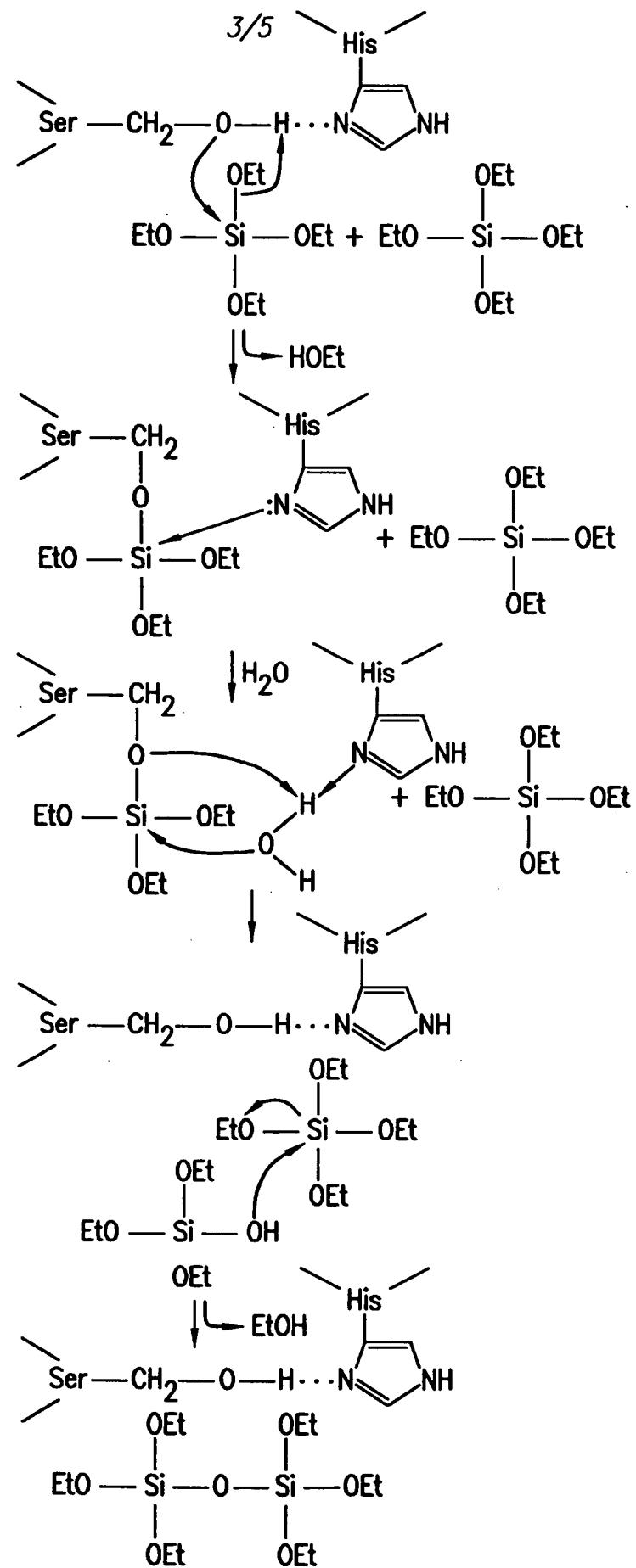


FIG. 3

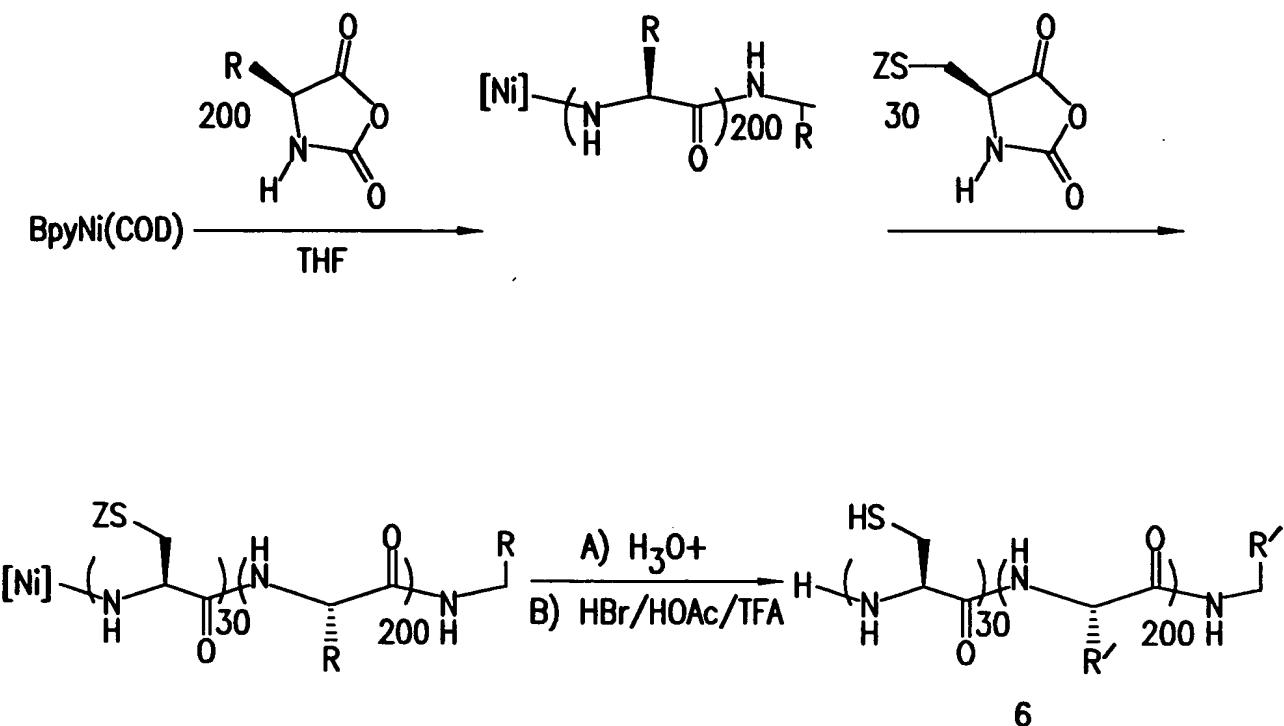
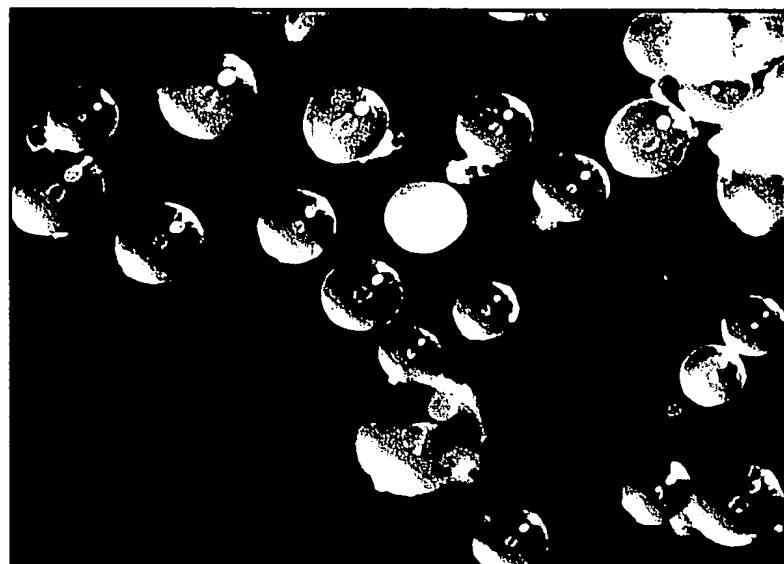

 $R = -(\text{CH}_2)_4\text{NHC(O)OCH}_2\text{C}_6\text{H}_5$
 $[\text{Ni}] = \text{INITIATOR ENDGROUP}$
 $R' = -(\text{CH}_2)_4\text{NH}_3^+ \text{BR}$
 $Z = -\text{C(O)OCH}_2\text{C}_6\text{H}_5$

FIG. 4

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FIG. 5A



— 200 μ m

FIG. 5B



— 1 μ m
3.0KV X6,500 14mm